

The Speargun Open Muzzle Band Elevator is designed to raise the powerbands commonly used on open muzzle spearguns to the same plane as the spear shaft. This is accomplished by the inclusion of a bar into the muzzle design, which elevates the stretched power bands to the correct height. The muzzle is a speargun part, which affixes to the distal end of the speargun and holds the power bands. Often times these bands are held below the plane of the spear shaft causing the bands to release their power in a downward vector towards the muzzle/powerband origin often resulting in speargun recoil. Speargun recoil if not controlled by the spearfisherman will cause the speargun to "jerk" and dramatically reduces the accuracy of the shot. This elevator bar allows the power bands, which are stretched over the bar to release their energy in the same plane as the spear shaft. By releasing their energy into the same plane as the spearshaft the powerbands do not recoil and thus the spear is fired with greater accuracy.

This elevator bar is unique, it is molded directly into the muzzle. Currently available open muzzles sold today are all made of derlin plastic and machined on lathes. My design with elevator bars is manufactured with polyurethane resin casting techniques and thus I have overcome the complexity of integrating an elevator bar into the muzzle, as one piece, by molding the muzzle in one step. The current formulation uses two part resins from BJB Plastics with glass frit added for additional strength and stability.

Claim:

I claim that band elevators molded into a speargun muzzle raising the power bands to the spear shaft height to reduce speargun recoil as my invention.